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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,586	07/15/2005	Klaus-Dieter Nittel	DNAG-290	2531
24972	7590	01/11/2007	EXAMINER	
FULBRIGHT & JAWORSKI, LLP			KLEMANSKI, HELENE G	
666 FIFTH AVE			ART UNIT	PAPER NUMBER
NEW YORK, NY 10103-3198			1755	
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	01/11/2007	PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/509,586	NITTEL ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Helene Klemanski	1755	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 28-39 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 28-39 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
 Paper No(s)/Mail Date 9/29/04 & 12/16/04.
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_.

**DETAILED ACTION**

***Information Disclosure Statement***

1. The DE 19918833 reference cited in the Search Report July 23, 2003 has been considered since the examiner was able to obtain a copy of the document on her own since a copy was not provided by applicants. A copy of this document is being scanned into the application.
2. The information disclosure statement filed September 29, 2004 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. The examiner considered the US reference and the above DE reference but has not considered the WO or the GB reference since there were no copies of these references filed and the examiner was unable to obtain a copy on her own. The examiner will consider the WO and GB references if they are filed in response to this Office Action.

***Claim Objections***

3. Claim 28 is objected to because of the following informalities: the following phrase is being objected to because of the following reasons:
  - (1) in claim 28, lines 4 and 5, the phrase "in particular metallic objects such as for example iron or steel wires". Applicants should note that the terms "in particular", "such as" and "for example" and the phrases that follow them do not further limit the claims. For example, in claim 28, it is the examiner's position that the object to be coppered can

be any object and the remaining specific objects after the terms "in particular" and "such as" and "for example" do not extend the scope of that claim. The examiner suggests the deletion of the above phrase and adding each limitation as a new dependent claim. Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 28-39 are rejected under 35 U.S.C. 102(b) as being anticipated by DE 19918833.

DE 19918833 teaches an electroless copper plating composition comprising a copper ion source, a copper ion reducing agent and a copper complexing agent. See the abstract (copy provided). The electroless copper plating composition as taught by DE 19918833 appears to anticipate the present claims.

Applicants should note that the above reference has been considered to the extent that it was cited as an X reference in the search report on all the claims since there was no translation readily available.

6. Claims 28033 are rejected under 35 U.S.C. 102(b) as being anticipated by Miyazawa et al. (US 4,303,443).

Miyazawa et al. teach an electroless copper plating solution comprising water, a water-soluble copper salt such as copper carbonate, a complexing agent such as citric acid or tartaric acid, a reducing agent, a pH controlling agent in an amount necessary to maintain the pH between 11 and 13.5 and an amine stabilizer of the formulas (1)-(4) as disclosed. See col. 2, lines 4-52, col. 3, line 49 – col. 4, line 39, col. 5, lines 6-17, the examples, Tables 1-1, 2-1, 3-1, 4-1, 5-1, 6-1 and 7-1 and claims 1-8 and 10. The electroless copper plating solution as taught by Miyazawa et al. appears to anticipate the present claims.

### ***Conclusion***

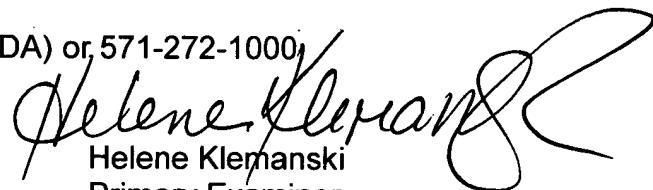
The remaining references listed on forms 892 and 1449 have been reviewed by the examiner and are considered to be cumulative to or less material than the prior art references relied upon in the above rejections.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Helene Klemanski whose telephone number is (571) 272-1370. The examiner can normally be reached on Monday-Friday 5:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on (571) 272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1755

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Helene Klemanski  
Primary Examiner  
Art Unit 1755



HK  
January 7, 2007